Fig. 1

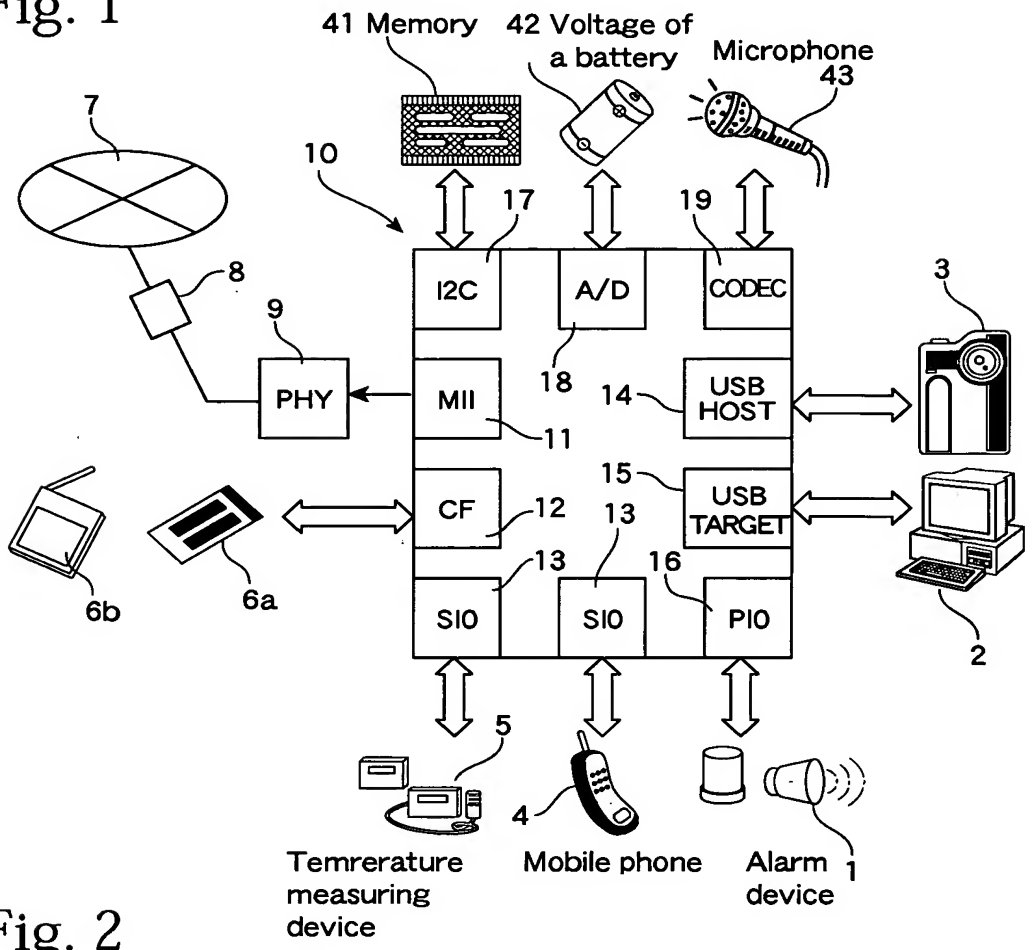

41 Memory
42 Voltage of a battery
Microphone
43
7
10
17
19
8
9
I2C
A/D
CODEC
3
PHY
MII
18
14
USB HOST
11
15
CF
12
13
USB TARGET
6b
6a
13
16
SIO
SIO
PIO
2
5
4
Temrerature measuring device
Mobile phone
Alarm device
1

Fig. 2

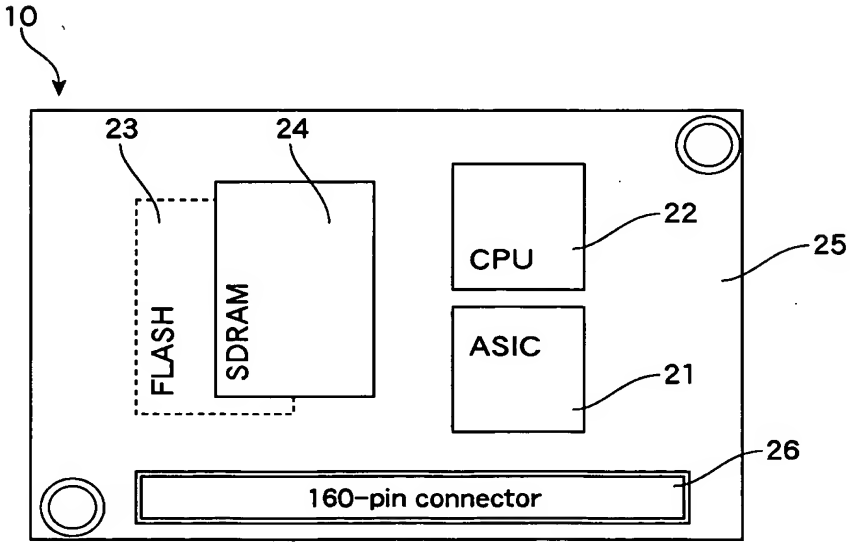

10
23
24
22
25
CPU
FLASH
SDRAM
ASIC
21
26
160-pin connector

Fig. 3

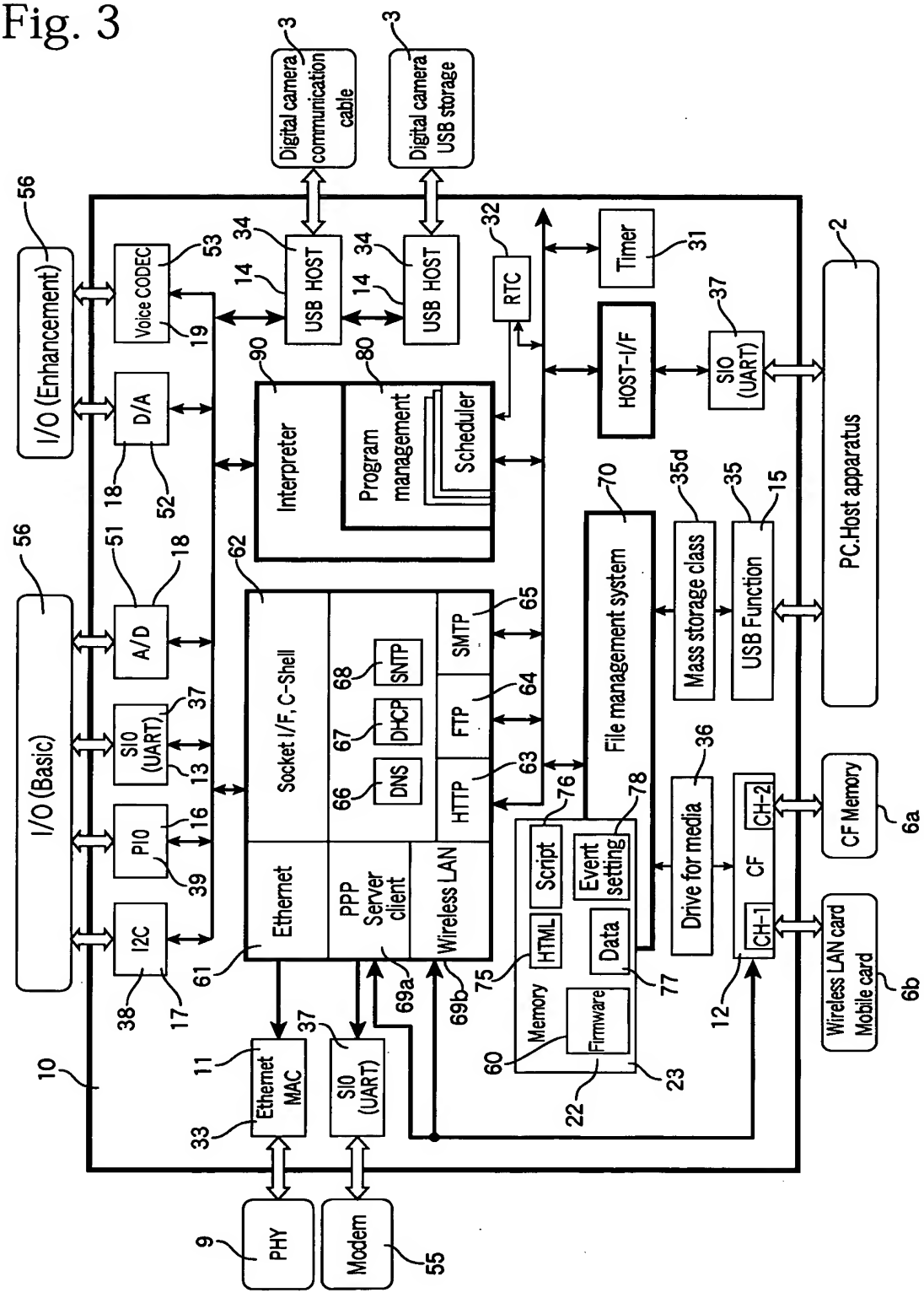

Digital camera communication cable
Digital camera USB storage
I/O (Enhancement)
Voice CODEC
D/A
A/D
SIO (UART)
PIO
I2C
I/O (Basic)
USB HOST
USB HOST
RTC
Timer
HOST-I/F
SIO (UART)
PC.Host apparatus
Interpreter
Program management
Scheduler
Socket I/F, C-Shell
SMTP
SNTP
FTP
DHCP
HTTP
DNS
Ethernet
PPP Server client
Wireless LAN
File management system
Mass storage class
USB Function
Drive for media
CF
CH-1
CH-2
CF Memory
Wireless LAN card Mobile card
Script
Event setting
HTML
Data
Memory
Firmware
Ethernet MAC
SIO (UART)
PHY
Modem

Fig. 4

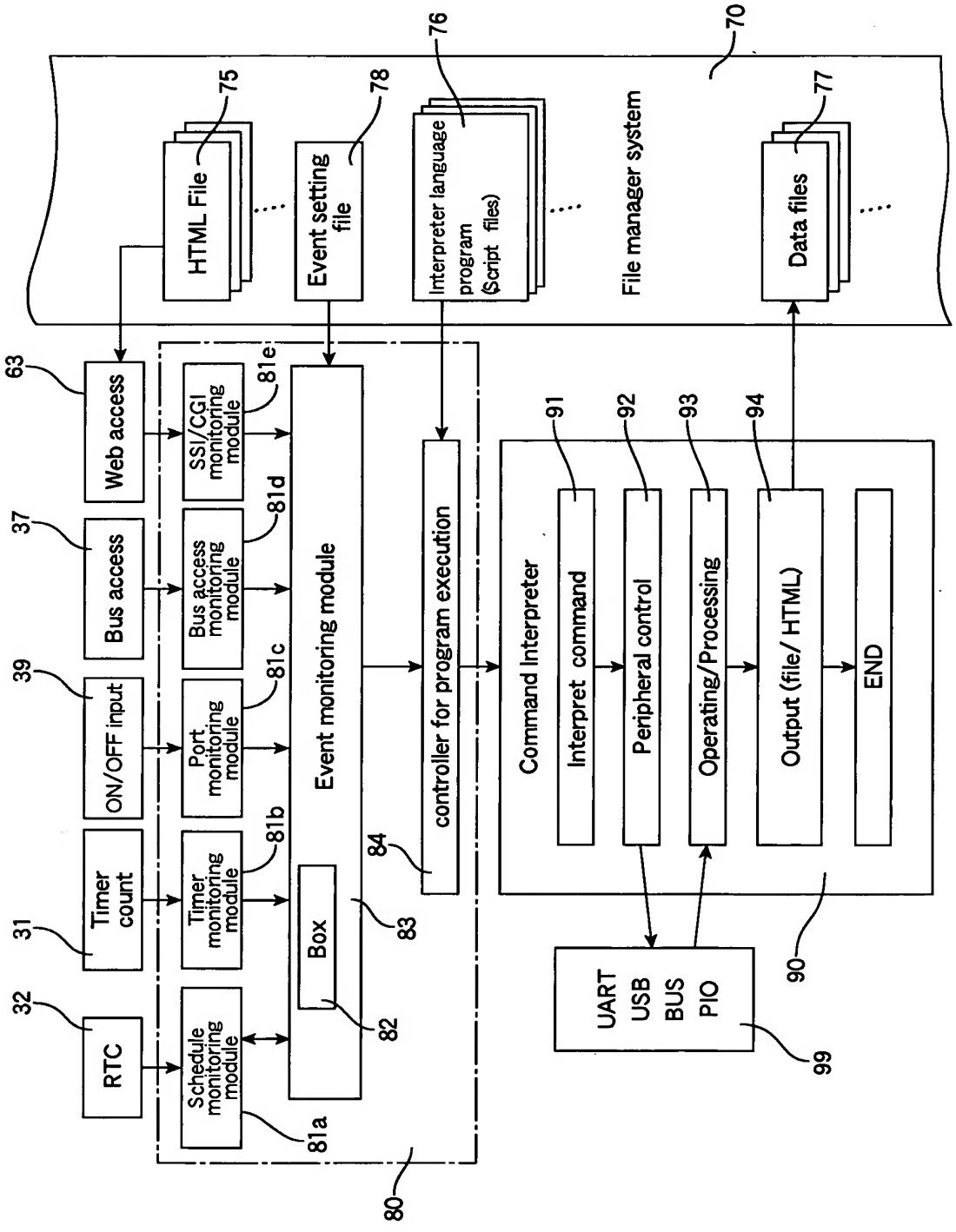

70
File manager system
75
HTML File
78
Event setting file
76
Interpreter language program (Script files)
77
Data files
63
Web access
37
Bus access
39
ON/OFF input
31
Timer count
32
RTC
81e
SSI/CGI monitoring module
81d
Bus access monitoring module
81c
Port monitoring module
81b
Timer monitoring module
81a
Schedule monitoring module
Event monitoring module
Box
82
83
84
80
controller for program execution
91
Command Interpreter
92
Interpret command
93
Peripheral control
94
Operating/Processing
Output (file/ HTML)
END
90
UART
USB
BUS
PIO
99

Fig. 5

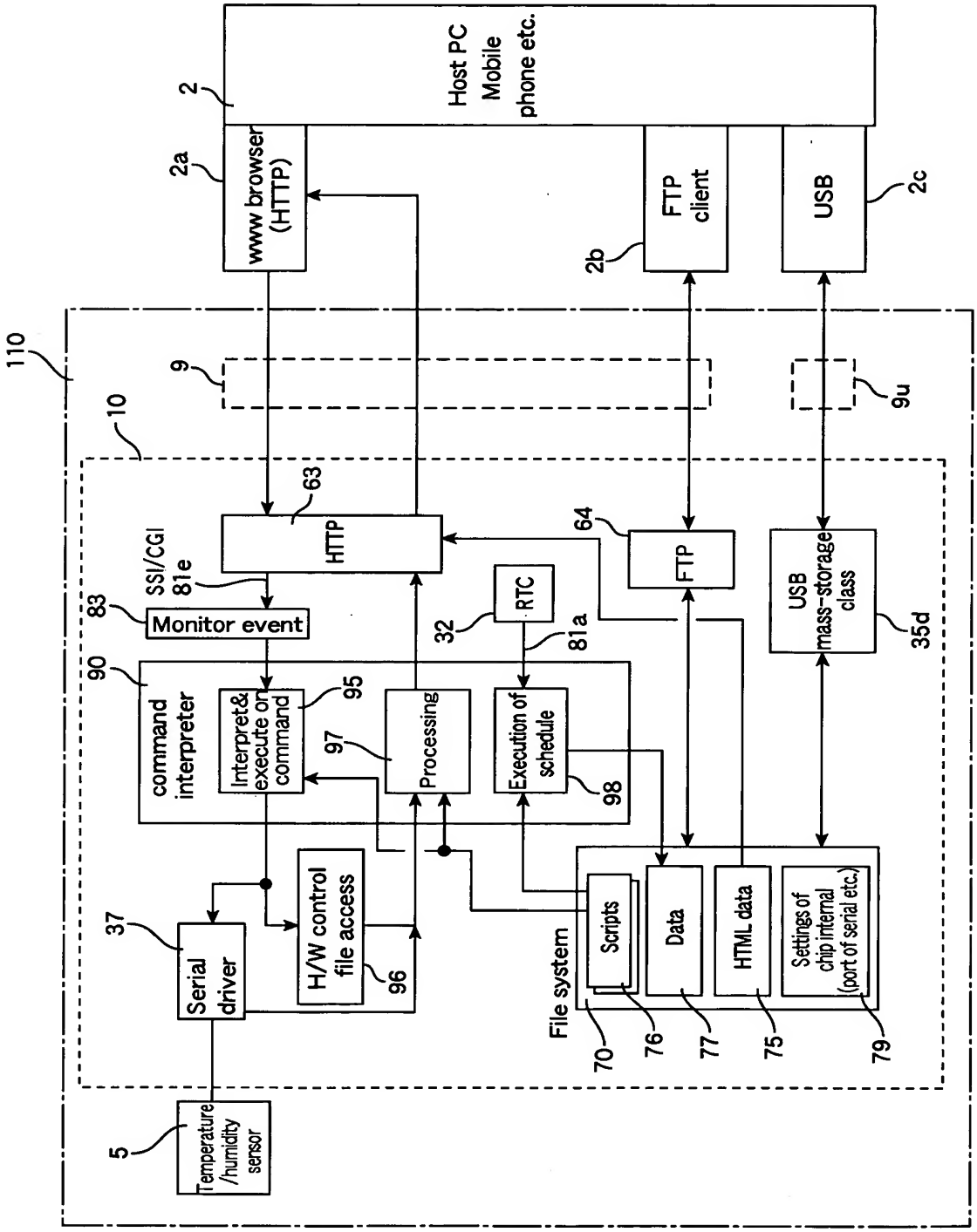

Host PC
Mobile
phone etc.
2
2a
www browser
(HTTP)
2b
FTP
client
USB
2c
110
9
9u
10
63
HTTP
64
FTP
SSI/CGI
81e
83
Monitor event
RTC
32
81a
USB
mass-storage
class
35d
90
command
interpreter
Interpret&
execute on
command
95
97
Processing
Execution of
schedule
98
37
Serial
driver
H/W control
file access
96
File system
Scripts
Data
HTML data
Settings of
chip internal
(port of serial etc.)
70
76
77
75
79
5
Temperature
/humidity
sensor

Fig. 6

(a)

```
<HTML>
<H1>Temperature and Humidity of the resort</H1>
<HR>
Click on button for Current Temperature and Humidity
<FORM METHOD="POST" ACTION="ondo.cgi">
<INPUT TYPE="submit" VALUE="UPDATE" >
<FORM>

</HTML>
```

75

(b)

ondo.cgi

```
$temp =get_ondo( ) ;
$hmdt= get_situdo( ) ;
```

76

(c)

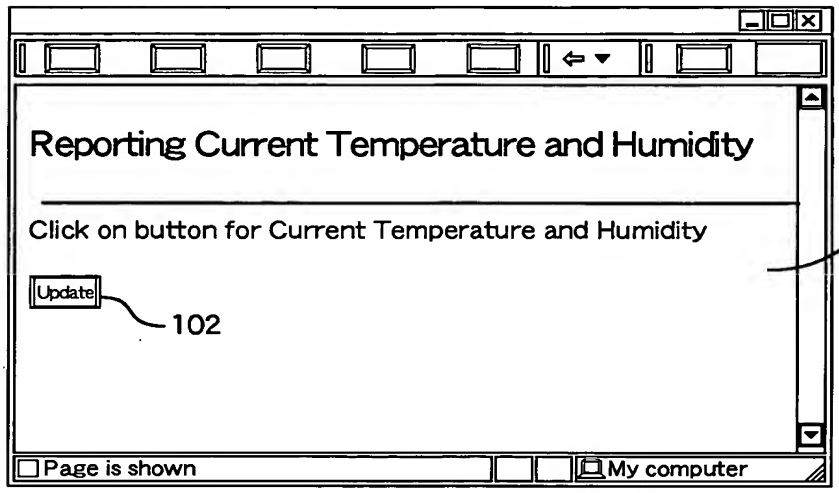
```
<HTML>
<H1>Display Current Temperature and Humidity</H1>
<HR>
Current Temperature is $temp. <BR>
<BR>
Current Humidity is $hmdt.<BR>

</HTML>
```

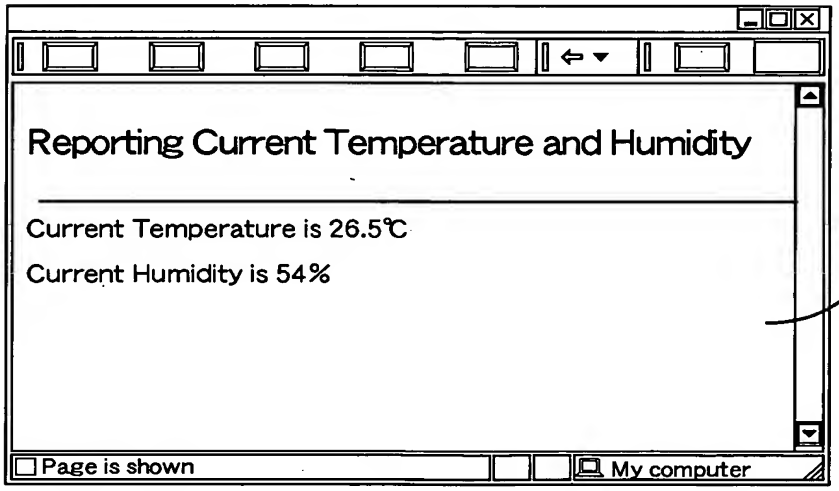
75a

Fig. 7

(a)


Reporting Current Temperature and Humidity
Click on button for Current Temperature and Humidity
Update
101
102
Page is shown
My computer

(b)


Reporting Current Temperature and Humidity
Current Temperature is 26.5℃
Current Humidity is 54%
103
Page is shown
My computer